BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

EMB

* * * * *

1st and Final Bill towards for the work of Improvements to roads and drains balance main and cross roads of B sector in ward no -04

ESTIMATE COST: RS.25.00 Lakhs

JOB NUMBER:004-20-000154

*Asst. Executive Engineer,*
*Yelahanka new town sub division,*
*BBMP, BANGALORE-64*

## 1st and Final bill

**Name of work: Improvements to roads and drains balance main and cross roads of B sector in ward no -04**

**Work Order No: BBMP / EE/ YNK.D / E-PMT-01 /W.O / 0053 /2020-21 dt:17-6-2020.**

**JOB NUMBER: 004-21-000154**

**Estimate Cost: 25.00 lakhs.**

**As No: CE/ YNK.Z/ AS / 205 /2020-21 dt :27-3-2020 .**

**Ts No : CE / YNK.Z/ TS / 349 /2020-21 dt : 27-3-2020.**

**Name of Contractor :Sri Venkatesh V**

# MEASUREMENTS

| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Removing and refixing stone slabs of drains and pointing in CM (1:3) | Sqm | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | 302.40 | | |
| | | | | | | | 302.40 | 109.00 | 32961.60 |
| 2 | KSRRB 300: Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 m and an average lift upto 0.5 m. excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 | Cum | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | 188.70 | | |
| | | | | | | | 188.70 | 211.00 | 39815.70 |

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| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 3 | Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work, curing, including form cost of all materials, labour, hire charges of Machinery, loading, unloading, laid and lift, transportation etc., complete. As per Engineer IN charge. (Data Rate). | Sqm | | | | | | | |
| | 1915 B cRoss | | 1 | 30.00 | 0.90 | | 27.00 | | |
| | | | 1 | 20.00 | 0.90 | | 18.00 | | |
| | | | 1 | 10.00 | 0.90 | | 9.00 | | |
| | | | 1 | 30.00 | 0.90 | | 27.00 | | |
| | | | 1 | 25.00 | 0.90 | | 22.50 | | |
| | | | 1 | 10.00 | 0.90 | | 9.00 | | |
| | | | 1 | 15.00 | 0.90 | | 13.50 | | |
| | | | 1 | 12.00 | 0.90 | | 10.80 | | |
| | | | 1 | 10.00 | 0.90 | | 9.00 | | |
| | | | 1 | 12.00 | 0.90 | | 10.80 | | |
| | | | 1 | 8.00 | 0.90 | | 7.20 | | |
| | | | 1 | 12.00 | 0.90 | | 10.80 | | |
| | | | 1 | 12.00 | 0.90 | | 10.80 | | |
| | | | 1 | 10.00 | 0.90 | | 9.00 | | |
| | | | 1 | 20.00 | 0.90 | | 18.00 | | |
| | | | 1 | 5.00 | 0.90 | | 4.50 | | |
| | | | | | | | 216.90 | 2290.00 | 496701.00 |
| 4 | Construction of granular sub-base Grading-V as Sub-Base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision. | Cum | | | | | | | |

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Ramesan Jeevaraj

| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Premeasurment Recorded vide excel sheet page no | | | | | | | | |
| | | | | | | | 121.46 | 1955.00 | 237459.19 |
| 5 | KSRRB M400-17: Providing, Laying, Spreading and Compacting crushed stone aggregates of granite/ trap/ Basalt to wet mix macadam specifications including premixing the material with water at OMC in Mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 | Cum | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | 161.95 | | |
| | | | | | | | 161.95 | 1961.00 | 317583.95 |
| 6 | KSRRB M500-6: Providing and Supplying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg /sqm using mechanical means complete as per specifications Clause 502 of MORTH Clause 502 of MORTH V revision (P.No-158 Item No. 21.6) | Sqm | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | 809.75 | | |
| | | | | | | | 809.75 | 28.00 | 22673.00 |

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| Sl | Description of Item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | KSRRB M500-17: Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete in all respects complete as per specifications. MORTH Specification No,507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen | Cum | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | | | |
| | | | | | | | 40.49 | | |
| | | | | | | | 40.49 | 6465.00 | 261751.69 |
| 8 | KSRRB 500-7: Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 | sqm | | | | | | | |
| | Premeasurment Recorded vide excel sheet page no | | | | | | | | |
| | | | | | | | 2789.45 | | |
| | | | | | | | 2789.45 | 12.00 | 33473.40 |

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| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 9 | Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. Do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 Bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) | Cum | | | | | | | |
| | 19th B cross B sector | | 1 | 30.00 | (5.8+6.2)/2 | 0.03 | 5.40 | | |
| | | | 1 | 30.00 | (6.2+6.0)/2 | 0.03 | 5.49 | | |
| | | | 1 | 30.00 | (6.0+6.7)/2 | 0.03 | 5.72 | | |
| | | | 1 | 30.00 | (6.7+6.60)/2 | 0.03 | 5.99 | | |
| | | | 1 | 30.00 | (6.6+6.6)/2 | 0.03 | 5.94 | | |
| | | | 1 | 30.00 | (6.6+6.7)/2 | 0.03 | 5.99 | | |
| | | | 1 | 30.00 | (6.7+6.60)/2 | 0.03 | 5.99 | | |
| | | | 1 | 30.00 | (6.6+6.6)/2 | 0.030 | 5.94 | | |
| | | | 1 | 30.00 | (6.6+7.1)/2 | 0.025 | 5.14 | | |
| | | | 1 | 30.00 | (7.1+6.5)/2 | 0.025 | 5.10 | | |
| | | | 1 | 30.00 | (6.5+6.5)/2 | 0.025 | 4.88 | | |
| | | | 1 | 30.00 | (6.5+6.5)/2 | 0.025 | 4.88 | | |
| | | | 1 | 30.00 | (6.5+6.0)/2 | 0.025 | 4.69 | | |
| | | | 1 | 30.00 | (6.0+6.5)/2 | 0.025 | 4.69 | | |
| | | | 1 | 30.00 | (6.5+6.5)/2 | 0.025 | 4.88 | | |
| | | | 1 | 18.00 | (6.5+6.5)/2 | 0.025 | 3.02 | | |
| | | | | | | | 83.70 | 7599.00 | 636036.30 |

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| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 10 | KSRRB M800-13: Road marking with Hot Applied 'Thermoplastic' Compound with Reflectorizing Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads at 250gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The Finished surface to be level , Uniform and free from streaks and holes complete as per Specifications. MORTH Specification NO 803 | Sqm | | | | | | | |
| | 19th B cross B sector | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 30.00 | 0.10 | | 6.00 | | |
| | | | 2 | 18.60 | 0.10 | | 3.72 | | |
| | | | 62 | 3.00 | 0.10 | | 18.60 | | |
| | | | | | | | 112.32 | 446.00 | 50094.72 |

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| Sl | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 11 | KSRRB M800-35: Supply and installation of moulded Shank Raised Pavement Markers made of Polycarbonate and ABS (Acrylonitrile Butadiene Styrene) Moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III D 11.06.1997. The height, width and length shall not exceed 50mm, 100mm and 102mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the | Nos | | | | | | | |
| | 19th B cross B sector | | 2x81 | | | | 162.00 | | |
| | | | | | | | 162.00 | 350.00 | 56700 |
| | | | | | | | Sub Total | | 2185250.55 |
| | | | | | | | 12% GST | | 262230.07 |
| | | | | | | | Total | | 2447480.61 |

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